

INCH-POUND
MIL-PRF-39005/2E
9 October 1997
SUPERSEDING
MIL-R-39005/2D
6 November 1989

PERFORMANCE SPECIFICATION

RESISTORS, FIXED, WIRE-WOUND (ACCURATE), NONESTABLISHED RELIABILITY, AND ESTABLISHED RELIABILITY STYLE RBR53

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the performance requirements for style RBR53, nonestablished reliability, established reliability, accurate, wire-wound, fixed resistors.

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation (see 6.2).

SPECIFICATION

MILITARY

MIL-PRF-39005 - Resistors, Fixed, Wire-Wound (Accurate), Nonestablished Reliability, Established Reliability, General Specification for.

(Unless otherwise indicated, copies of the above specifications, standards, and handbooks are available from the Defense Automated Printing Service, Building 4D (NPM DODSSP), 700 Robbins Ave., Philadelphia, PA 19111-5094.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: US Army Communications - Electronics Command, ATTN: AMSEL-LC-LEO-E-EP, Fort Monmouth, NJ 07703-5023 by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of the basic document or by letter.

MIL-PRF-39005/2E

2.2 Order of precedence. In the event of a conflict between the text of this document and the reference cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 General. The requirements for acquiring the product described herein shall consist of this document and MIL-PRF-39005.

3.2 Interface and physical dimensions. Resistors shall meet the interface and physical dimensions specified on figure 1.

3.3 Minimum resistance value and applicable tolerance. Minimum resistance value shall be 0.1 ohm for tolerance F (± 1.0 percent). For tolerances B, A, Q, T (± 10 , ± 05 , ± 02 , and ± 01 percent, respectively), the minimum resistance value shall be 10 ohms.

3.4 Maximum resistance value. Maximum resistance values and applicable wire sizes shall be as follows:

Nominal wire size (inches) diameter	Absolute diameter	Maximum resistance value (megohms)
.001	.0009	.500
.0009	.00081	.750
.0008	.00072	1.1

3.5 Power rating. Power rating shall be 0.33 watt.

3.6 Maximum voltage. Maximum voltage shall be 300 volts direct current or peak.

3.7 Maximum weight. The maximum weight shall be 5 grams.

4. VERIFICATION

4.1 Verification. Verification shall be in accordance with MIL-PRF-39005.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When actual packaging of materiel is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

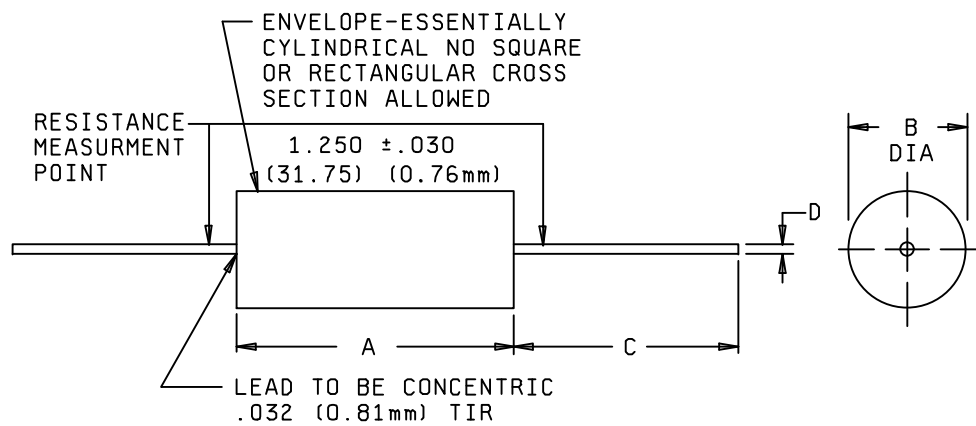
6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Notes. The notes specified in MIL-PRF-39005 are applicable to this specification.

6.2 Acquisition requirements. Acquisition documents must specify the following:

- a. Title, number, and date of the specification.
- b. Issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.2.1).
- c. Packaging requirements (see 5.1).



Dimension	Inches	Millimeters
A	0.750 +0.020 -0.032	19.05 +0.51 -0.81
B	0.375 ±0.015	9.52 ±0.38
C	1.500 min	38.10 min
D	0.032 ±0.002	0.81 ±0.05

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimension A is 'clean lead to clean lead'.

FIGURE 1. Style RBR53 resistor.

MIL-PRF-39005/2E

6.3 Supplementary insulation. Where potential to ground is over 250 volts, supplementary insulation should be provided.

6.4 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - AR, AT, AV, CR4, MI
Navy - AS, MC, OS
Air Force - 17, 19

Preparing activity:

Army - CR

Agent:

DLA - CC

(Project 5905-1479-02)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
MIL-PRF-39005/2E

2. DOCUMENT DATE (YYMMDD)
971009

3. DOCUMENT TITLE RESISTORS, FIXED, WIRE-WOUND (ACCURATE), NONESTABLISHED RELIABILITY, AND ESTABLISHED RELIABILITY STYLE RBR53

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)
(1) Commercial
(2) AUTOVON
(if applicable)

7. DATE SUBMITTED
(YYMMDD)

8. PREPARING ACTIVITY

a. NAME

US ARMY COMMUNICATIONS-ELECTRONICS
COMMAND

b. TELEPHONE Include Area Code)

(1) Commercial
(732) 532-9104

(2) AUTOVON
992-9104

c. ADDRESS (Include Zip Code)

ATTN: AMSEL-LC-LEO-E-EP
FORT MONMOUTH, NJ 07703-5023

IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:

DEFENSE QUALITY AND STANDARDIZATION OFFICE
5203 Leesburg Pike, Suite 1403, Falls Church, VA 22401-3466
Telephone (703) 756-2340 AUTOVON 289-2340